

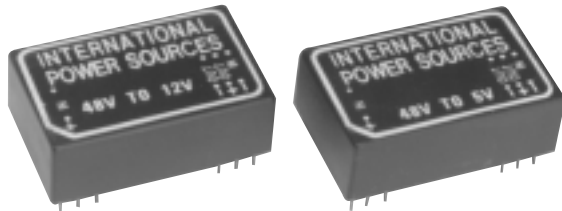
# DC/DC Converters

**XPiQ inc.**

Intelligent Design Quality Product



**5 Watts  
WT Series**



- 2:1 Input Range
- Isolated Outputs
- Efficiency to 82%
- Input  $\pi$  Filter
- Fully Regulated Outputs
- Optional 3k VDC Isolation

## Specification

All specifications typical at nominal line, full load and 25°C

### Input

- *Input Voltage Range* • See Table
- *Input Filter* •  $\pi$  Network

### Output

- *Voltage Accuracy* •  $\pm 3\%$  max.
- *Line Regulation (Full Input Range)* •  $\pm 1\%$  max.
- *Load Regulation (1/4 Full Load)* •  $\pm 2.5\%$  max.
- *Ripple & Noise (DC-20MHz)* • 1% of  $V_{out}$  p-p max.
- *Temperature Coefficient* •  $\pm 0.05\%/^{\circ}\text{C}$  max.
- *Short Circuit Protection* • Indefinite

### General

- *Switching Frequency* • 100 kHz
- *Efficiency* • See Table
- *Isolation (Input-Output)* • 500 VDC/3000 VDC\* (1000 Mohm/80pF)

### Environmental

- *Operating Temperature* •  $-25^{\circ}\text{C}$  to  $+71^{\circ}\text{C}$
- *Storage Temperature* •  $-55^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$



OUTPUT VOLTAGE & CURRENT RATINGS						WT
Model	Input Voltage	Output Voltage	Output Current	Input Current		% Efficiency
				No Load	Full Load	
WT201	9-18 VDC	5 VDC	1000 mA	25 mA	545 mA	76
WT202	9-18 VDC	12 VDC	470 mA	25 mA	585 mA	80
WT203	9-18 VDC	15 VDC	400 mA	25 mA	625 mA	80
WT204	9-18 VDC	±5 VDC	±500 mA	68 mA	630 mA	66
WT205	9-18 VDC	±12 VDC	±230 mA	25 mA	575 mA	80
WT206	9-18 VDC	±15 VDC	±190 mA	25 mA	590 mA	80
WT301	18-36 VDC	5 VDC	1000 mA	15 mA	265 mA	78
WT302	18-36 VDC	12 VDC	470 mA	15 mA	285 mA	82
WT303	18-36 VDC	15 VDC	400 mA	15 mA	305 mA	82
WT304	18-36 VDC	±5 VDC	±500 mA	35 mA	300 mA	70
WT305	18-36 VDC	±12 VDC	±230 mA	15 mA	285 mA	81
WT306	18-36 VDC	±15 VDC	±190 mA	15 mA	295 mA	81
WT401	36-72 VDC	5 VDC	1000 mA	10 mA	130 mA	80
WT402	36-72 VDC	12 VDC	470 mA	10 mA	143 mA	82
WT403	36-72 VDC	15 VDC	400 mA	10 mA	152 mA	82
WT404	36-72 VDC	±5 VDC	±500 mA	10 mA	160 mA	65
WT405	36-72 VDC	±12 VDC	±230 mA	10 mA	140 mA	82
WT406	36-72 VDC	±15 VDC	±190 mA	10 mA	145 mA	82

#### Notes

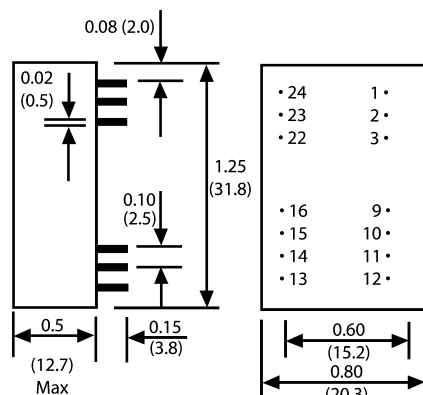
Nominal Input Voltage 12, 24, or 48 VDC.

For optional 4:1 input range:

9-36VDC: add suffix "A" to WT200 series.

20-72VDC: add suffix "A" to WT300 series.

#### Mechanical Details



(Bottom View)

PIN	SINGLE OUTPUT	DUAL OUTPUT
1	+ V Input	+ V Input
2	No Connection	- V Output
3	No Connection	Common
10	- V Output	Common
11	+ V Output	+ V Output
12	- V Input	- V Input
13	- V Input	- V Input
14	+ V Output	+ V Output
15	- V Output	Common
22	No Connection	Common
23	No Connection	- V Output
24	+ V Input	+ V Input

PIN	SINGLE OUTPUT	DUAL OUTPUT
1	No Pin	No Pin
2	- V Input	- V Input
3	- V Input	- V Input
9	No Connection	Common
10	No Connection	No Connection
11	No Connection	- V Output
12	No Pin	No Pin
13	No Pin	No Pin
14	+ V Output	+ V Output
15	No Connection	No Connection
16	- V Output	Common
22	+ V Input	+ V Input
23	+ V Input	+ V Input
24	No Pin	No Pin

Alternate Pin Out

3000 VDC Isolation

Suffix "X"

Dimensions in inches (mm)

Specifications subject to change.

\* 3000 VDC on "X" Package